

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291093

Luminaire Tested: **14GR-LD5-24-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

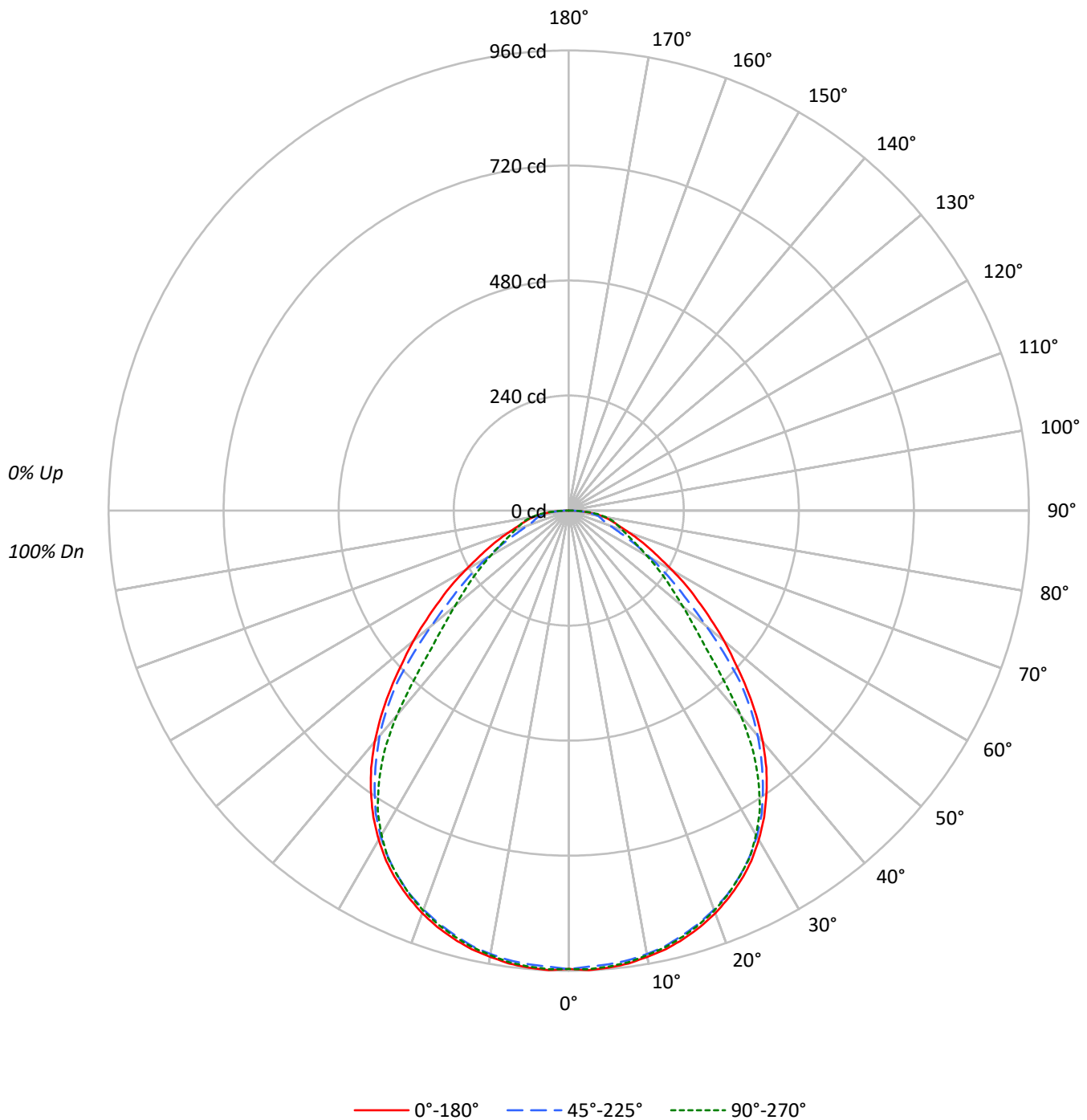
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	73	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2574	2574	2574
5°	2586	2566	2579
10°	2583	2567	2573
15°	2578	2555	2563
20°	2560	2536	2543
25°	2526	2501	2503
30°	2464	2439	2428
35°	2363	2320	2267
40°	2212	2156	1962
45°	1998	1922	1533
50°	1772	1561	1297
55°	1546	1280	1144
60°	1341	1054	1010
65°	1176	846	932
70°	1049	717	938
75°	1023	756	1048
80°	1134	955	1203
85°	1183	1019	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	4.3
10°-20°	259.9	12.5
20°-30°	388.8	18.6
30°-40°	438.9	21.0
40°-50°	372.4	17.8
50°-60°	252.0	12.1
60°-70°	150.4	7.2
70°-80°	94.2	4.5
80°-90°	39.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	739.5	35.4
0°-40°	1178.5	56.5
0°-60°	1802.8	86.4
0°-90°	2087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	957	954	950	957	955	91
15°	925	923	917	923	920	261
25°	851	848	842	846	843	391
35°	719	714	706	700	690	448
45°	525	527	505	433	403	405
55°	330	314	273	244	244	297
65°	185	153	133	142	146	185
75°	98	88	73	96	101	106
85°	38	36	33	43	46	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.4	956.4	956.4	956.4	956.4
2.5°	959.7	956.8	952.5	958.3	957.8
5°	957.3	954.4	950.1	956.8	954.9
7.5°	953.0	950.5	946.2	952.5	950.5
10°	945.2	943.3	939.4	944.7	941.8
12.5°	937.0	935.5	930.7	935.5	932.6
15°	925.3	923.4	917.1	923.4	920.0
17.5°	910.8	908.4	903.0	908.4	905.5
20°	893.8	890.9	885.6	890.9	888.0
22.5°	873.5	871.0	866.2	871.0	867.2
25°	850.7	847.8	842.4	846.3	842.9
27.5°	824.5	820.6	815.8	818.7	816.8
30°	793.0	788.2	784.8	784.8	781.4
32.5°	758.6	755.2	749.4	746.0	741.6
35°	719.3	714.5	706.2	699.9	690.2
37.5°	677.2	671.3	661.2	645.2	632.1
40°	629.7	622.4	613.7	582.2	558.4
42.5°	578.8	577.3	562.3	508.5	475.5
45°	525.0	526.9	505.1	432.9	402.8
47.5°	470.7	477.5	437.7	366.9	351.4
50°	423.2	425.6	372.8	318.5	309.7
52.5°	374.2	370.3	318.0	280.2	273.9
55°	329.6	314.1	272.9	244.3	243.8
57.5°	290.3	261.7	233.2	211.8	214.2
60°	249.1	217.2	195.8	184.2	187.6
62.5°	212.8	182.3	163.4	160.0	165.8
65°	184.7	153.2	132.8	141.5	146.4
67.5°	158.0	131.4	108.1	128.9	130.9
70°	133.3	113.9	91.1	118.8	119.2
72.5°	112.9	100.8	79.0	107.6	109.1
75°	98.4	87.7	72.7	96.0	100.8
77.5°	86.3	75.1	67.4	82.9	91.1
80°	73.2	60.6	61.6	69.3	77.6
82.5°	56.2	47.0	49.0	57.2	63.0
85°	38.3	36.4	33.0	42.7	45.6
87.5°	20.4	19.4	17.0	24.2	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)